

## CDK1 Rabbit mAb

Catalog No: #48788

Package Size: #48788-1 50ul #48788-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

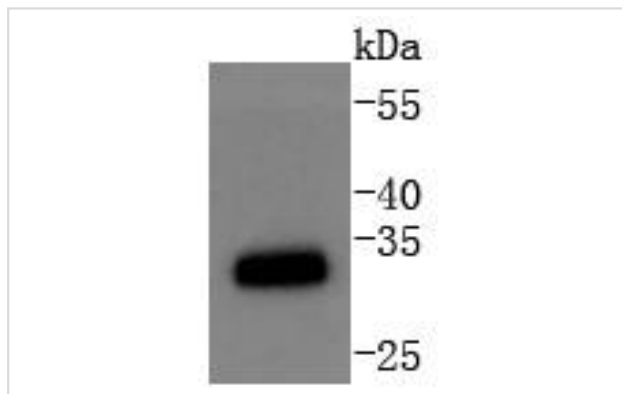
## Description

Product Name	CDK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SM01-44
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Cdc 2 antibody Cdc2 antibody CDC28A antibody CDK 1 antibody CDK1 antibody CDK1_HUMAN antibody CDKN1 antibody CELL CYCLE CONTROLLER CDC2 antibody Cell division control protein 2 antibody Cell division control protein 2 homolog antibody Cell division cycle 2 G1 to S and G2 to M antibody Cell division protein kinase 1 antibody Cell Division Cycle 2 Protein antibody Cyclin Dependent Kinase 1 antibody Cyclin-dependent kinase 1 antibody DKFZp686L20222 antibody MGC111195 antibody p34 Cdk1 antibody p34 protein kinase antibody P34CDC2 antibody
Accession No.	Swiss-Prot#:P06493
Uniprot	P06493
GeneID	983;
Calculated MW	34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

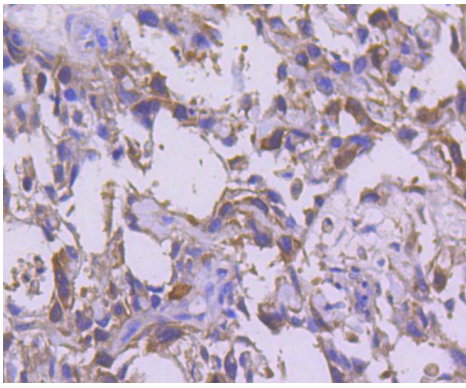
## Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200

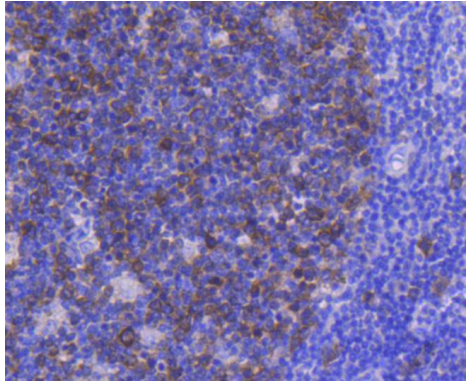
## Images



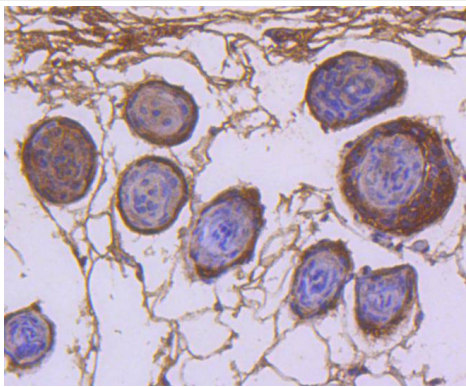
Western blot analysis of CDK1 on Jurkat cells lysates using anti-CDK1 antibody at 1/1,000 dilution.



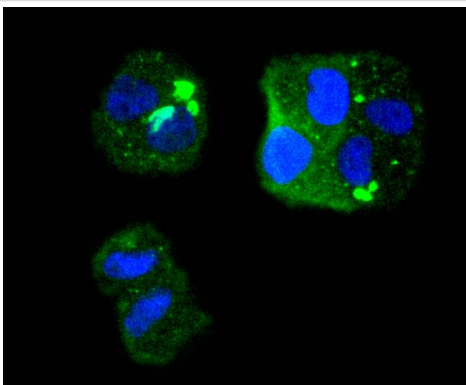
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-CDK1 antibody. Counter stained with hematoxylin.



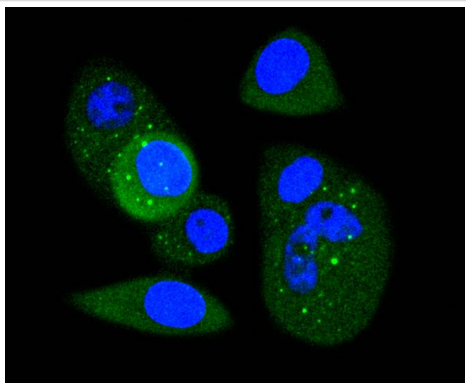
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CDK1 antibody. Counter stained with hematoxylin.



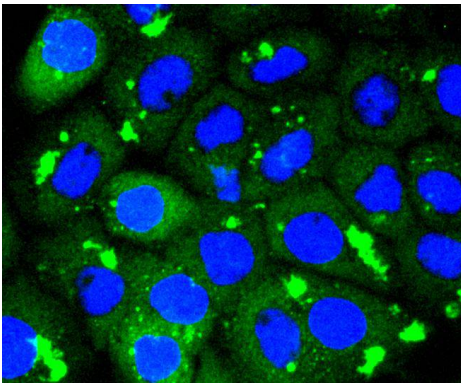
Immunohistochemical analysis of paraffin-embedded mouse skin tissue using anti-CDK1 antibody. Counter stained with hematoxylin.



ICC staining CDK1 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CDK1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining CDK1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

Cdk1 is a small protein (approximately 34 kilodaltons), and is highly conserved. Cdk1 is comprised mostly by the bare protein kinase motif, which other protein kinases share. Cdk1, like other kinases, contains a cleft in which ATP fits. When bound to its cyclin partners, Cdk1 phosphorylation leads to cell cycle progression. Given its essential role in cell cycle progression, Cdk1 is highly regulated. Most obviously, Cdk1 is regulated by its binding with its cyclin partners. Cyclin binding alters access to the active site of Cdk1, allowing for Cdk1 activity; furthermore, cyclins impart specificity to Cdk1 activity. At least some cyclins contain a hydrophobic patch which may directly interact with substrates, conferring target specificity. Furthermore, cyclins can target Cdk1 to particular subcellular locations.

## References

Note: This product is for in vitro research use only